

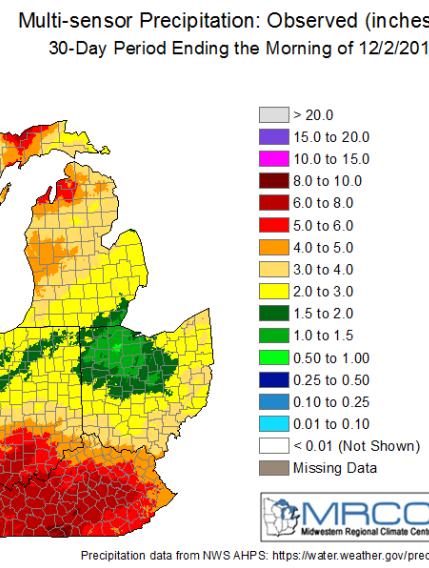
Increased Spring Flood Threat Continues

- Current conditions suggest spring flooding will be more likely than in a typical year, particularly on the Mississippi River. Yet, significant flooding is not certain.
- Additional contributing factors to flood potential must be evaluated over the winter months.

What's New?

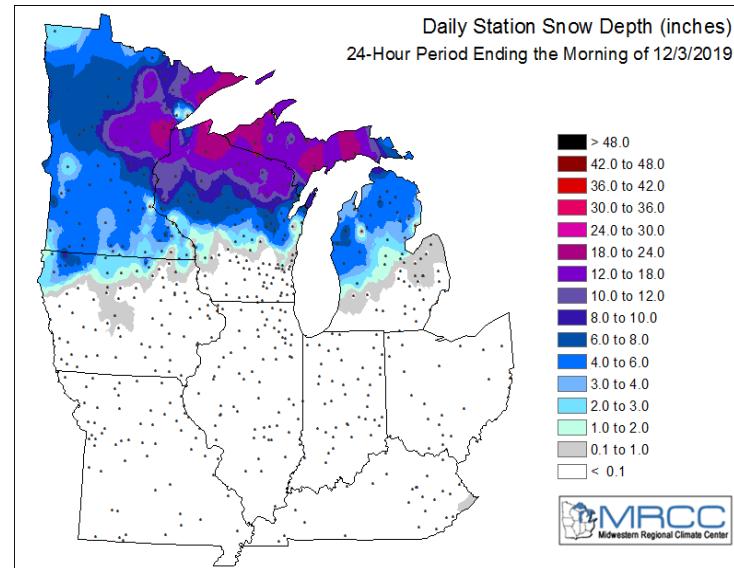
A Wet and Snowy November

Active weather brought significant rain and snow to parts of the region. Some areas received up to 4" of liquid precipitation keeping soils wet.



Beginning of the winter snowpack?

As of December 3, snow cover analysis indicated a range from 2" to 20" over much of Minnesota and the northern half of Wisconsin.



What does this mean?

How does snowmelt timing affect spring floods on the Mississippi River?

Sooner: prolongs high rivers → keeps elevated flood threat, but does get water out of the system

Later: snowpack develops → increase in threat for more impactful flooding in the spring

December Temperature forecast:

Some warmer days are likely through mid-month, but a few potential cold snaps trend the forecast below normal. Mid to late December trends show the potential for above normal temperatures.

Week 2: [Temperature Outlook / Risk of Hazardous Temps](#)

Weeks 3-4: [Temperature Outlook](#)



National Weather Service

Quad Cities, IL/IA

Wednesday, December 4, 2019 8:31 AM

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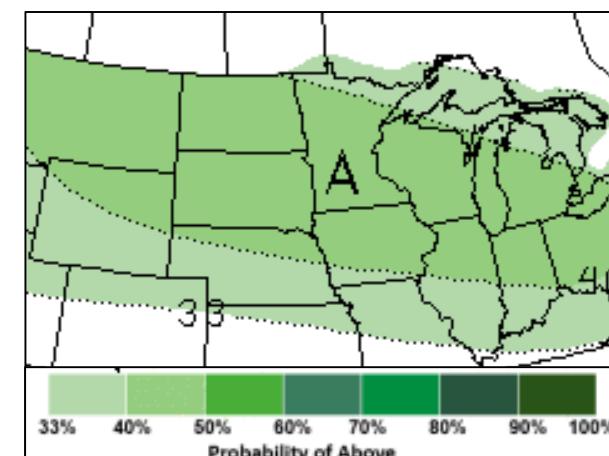
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Winter 2019: *Precipitation Outlook*

Odds remain in favor for near to above normal precipitation for the winter months.

These same areas are still observing wet conditions, with nearly saturated soils and higher than normal river levels for early winter. The wet signal remains concerning for spring flood potential.

Even a normal amount of precipitation this winter season could bring an elevated risk for flooding this upcoming spring.



The updated Winter Outlook for Dec 2019 – Feb 2020 indicates odds favoring wetter than normal precipitation.
(Find the Latest Outlook at: www.cpc.ncep.noaa.gov)

Spring Flood Threat Checklist (as of early Dec)

Threat	Impact to Potential Spring Flooding	Change Since Last Outlook	Link to Image
High river levels	Increased Threat	Unchanged	USGS WaterWatch
High soil moisture	Increased Threat	Unchanged	CPC Soil Moisture
Winter Precipitation	Unknown	Unchanged	Winter Outlook
Snowpack/Liquid Equivalent	Unknown	Unchanged	Snow Analysis
Rate of Snowmelt	Unknown	Unchanged	24, 48, & 72 hr Snowmelt
Frost Depth	Unknown	Unchanged	Frost Depth Map
Spring Precipitation	Unknown	Unchanged	

Next Update Planned for Early January

2020 Probabilistic Spring Flood Outlook Dates:

February 13, 2020

February 27, 2020

March 12, 2020

Potential Flooding Impacts For Winter/Spring

- Rivers freezing at high levels
- Widespread ice jams
- Widespread flooding again for Spring 2020
- Agricultural impacts

The National Weather Service urges those with interests in flooding to stay tuned to additional communications going through the winter and early spring seasons.